



# *Missouri Court Automation*

## **Hardware and Software Standards**

### **November 2004**

## **INTRODUCTION**

The attached table is a compilation of the court automation infrastructure standards adopted by the Missouri Court Automation Committee. Note that the standards specify minimum configurations and also the configuration most commonly purchased now. These are for new purchases and do not impact current equipment and software, which work successfully with Court Automation solutions.

Because of Judicial Information System (JIS) requirements, the Standards have been expanded to include more specific language relating particularly to server and printer specifications.

- The Applications Server provided for each court is reserved for JIS and other system applications. It is configured by technical staff for the optimal configuration. No modifications to the server are allowed without specific approval, in writing, by the Project Director.
- Print requirements for JIS dictate the use of networked printers. Printers shared from workstations and local printers are not acceptable for JIS.

Software versions have generally been removed from the descriptions with the current released version of software accepted as standard. The significant exception to this is that the network operating system for the Application Server must be Microsoft Windows **2000 Advanced Server, Service Pack 4 and Windows Server 2003 Enterprise**. This version and service pack level is routinely installed on these servers and may not be changed.

For courts not purchasing from the competitively bid state contracts, specifications for court automation workstations are attached. These specifications must be used to guarantee compliance and compatibility.

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OSCA Help Desk SERVERS, WORKSTATIONS AND PRINTERS	
<b>Desktop Personal Computer</b> (Minimum Configuration)	<b>For new computers:</b> <ul style="list-style-type: none"> <li>▪ Pentium processor (MHz based on current availability)</li> <li>▪ 512 MB RAM</li> <li>▪ 20 GB hard drive</li> <li>▪ 17" SVGA color monitor</li> <li>▪ 3COM or Integrated Intel 10/100/1000 or Integrated Broadcom 10/100/1000 Ethernet card</li> <li>▪ CD-ROM drive</li> <li>▪ Sound Card</li> <li>▪ Floppy</li> </ul>
<b>Laptop Personal Computer</b> (Minimum Configuration)	<b>For new computers:</b> <ul style="list-style-type: none"> <li>▪ Pentium processor (MHz based on current availability)</li> <li>▪ 512 MB RAM</li> <li>▪ 20 GB hard drive</li> <li>▪ 14" or greater TFT XGA color screen</li> <li>▪ 3COM 574 or Integrated Intel 10/100/1000 or Integrated Broadcom 10/100/1000 Ethernet card</li> <li>▪ CD-ROM drive and Floppy Drive</li> <li>▪ Sound Card (recommended, but optional)</li> <li>▪ Modem (minimum speed of 56kbps support for the Hayes AT command set)(recommended but optional)</li> <li>▪ Serial/Parallel Port Capability</li> </ul>
<b>Servers – LAN, Lotus Notes, Forms</b> (Minimum Configuration)	<b>HP/Compaq Proliant</b> Pentium 1.5 – 2 GHz 1 GB RAM 3 – 36 GB hard drives Hot Swapable drive
<b>Servers – Application</b> (Minimum Configuration)	<b>HP/Compaq Proliant</b> Pentium 1.5 – 2 GHz, dual processor 1GB RAM 5-36 GB hard drives RAID-5 redundancy/RAID 0+1 Hot Swapable drive
<b>Printers</b>  Most Common Now: HP LaserJet 2300DN or 2300DTN HP 4200N or 4200TN or 4300N HP 3000N (color printer) HP 1300N  <b>Printable area must be at least a quarter inch each side of the page and support postscript printing.</b>	<b>Hewlett Packard LaserJet and DeskJet Series</b> For ALL Courts, printers <u>must</u> support PCL5, PCL6 and Postscript  <b>Lexmark Optra S with MICR modules (may need to be customized)</b> For courts which elect to print magnetic coding on checks- Must contact OSCA technical staff before purchasing.

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Hardware/Software Component	Standard
<b>Multifunction Products</b> With printer, copier, FAX, scanner capabilities	<b>Acceptable:</b> <ul style="list-style-type: none"> <li>HP 4101 &amp; HP 4100</li> <li>Canon ImageRunner</li> <li>Lexmark X Series and OptraImage</li> </ul>
<b>Bar Code Printer (Label Printer)</b>	<b>Acceptable:</b> Sato CX208TT or CX212 (Requires an external print server for networking)
<b>Print Servers</b>	<b>Hewlett Packard Jet Direct EX Plus</b> Required for network printers without an internal print server.
<b>Bar Code Scanner</b>	<b>Programmable Code Laser Scanner-Wasp or Pin Point</b> Handheld laser scanner with a PS/2 keyboard adapter, usable with Windows 95 or Windows NT application.
<b>LOCAL AREA NETWORK (LAN) PERIPHERALS</b>	
<b>Tape Drives</b>	<b>ADIC, HP LTO</b>
<b>Uninterruptible Power Supply</b>	<b>APC Smart UPS</b>
<b>Modems</b>	Minimum speed of 56kbps support for the Hayes AT command set (recommended but optional)
<b>Optical Storage</b>	<b>CD-ROM/CD/CD-RW/DVD-RW</b>
<b>Networked CD-ROM Drive Option</b>	<b>Standalone CD-ROM Miniserver</b>
<b>LOCAL AREA NETWORK AND WORKSTATION SOFTWARE</b>	
<b>Network Operating System</b>	<b>Windows 2000 Server w/Service Pack 4</b> for Domain Controllers and File Servers <b>Windows Server 2003 Enterprise Edition</b> or <b>Windows 2000 Advanced Server w/SP4</b> for Application Servers/Database Servers
<b>Desktop Operating System</b>	<b>Microsoft Windows 2000 Professional w/SP4</b>
<b>Office Automation</b> (Word processing, spreadsheet, presentation, and database)	<b>Microsoft Office 97</b> with scheduled replacement by <b>Microsoft Office XP</b> with implementation of JIS 4.1 Phase II JIS - Phase I currently requires Word 97 for its forms/merge functionality.
<b>Help Desk</b>	<b>ASG Impact</b>
<b>Project Management Software</b>	<b>Microsoft Project</b>
<b>WEB Browser</b>	<b>Microsoft Internet Explorer</b>
<b>Groupware/Electronic Mail</b>	<b>Lotus Notes</b>
<b>Document Viewer</b>	<b>Adobe Acrobat</b>
<b>Anti-Virus Software</b>	<b>InoculateIT, Webshield Appliance</b>
<b>Workflow/Graphics</b>	<b>Visio, Netviz</b>
<b>Report Generator</b>	<b>Crystal Reports, Cognos</b>
<b>Remote Communications</b>	<b>PC Anywhere, SMS</b>
<b>File Compression</b>	<b>WinZip</b>
<b>Network Backup Software</b>	<b>ARCserve, HP Data Protector</b>
<b>Network Management Software</b>	<b>Microsoft System Management Server (SMS), Cisco Works, MS Software Update Services (SUS), HP Openview, MRTG</b>
<b>Defragmentation Software</b>	<b>Disk Keeper</b>

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WAN/LAN COMPONENTS	
Hubs and Switches	Cisco
Wireless Bridge	Cisco/Alvarion
Routers	Cisco
LAN Wiring	Category 5E UTP Wiring System
LAN Topology	10/100/1000 Base T or 10/100 Base T
Network Protocol	TCP/IP
Internet Access	IVDN Network (State of Missouri Network)
Remote Access/Security	Microsoft Remote Access Service (RAS) and RSA Secure ID tokens
VPN	Cisco VPN 3000 Cisco Pix Firewall
VPN Client	Cisco VPN Client

For Additional information,  
contact OSCA at  
(573) 522-5577  
or via Lotus Notes at  
OSCA Help Desk

**Statewide Court Automation  
Minimum Personal Computer Requirements  
for Courts Conducting Competitive Bid Process**

The following are the minimum requirements for personal computers for use with statewide court automation. If a court is not purchasing computers from the prime vendor contract, the following must be specified:

- Intel Pentium® processor
- Intel motherboard
- 512 MB RAM with 512K L2 Cache
- 3 Com 905C PCI or Integrated Intel 10/100/1000 or Integrated Broadcom 10/100/1000 NIC
- CD ROM drive
- 16 MB PCI or AGP Video card
- 17" SVGA Color Monitor, .28dot, 1024x768 resolution @ 75hz
- 20 GB Ultra ATA IDE hard drive
- 104 key keyboard
- Microsoft or Logitech PS/2 Mouse
- DMI 2.0 compliant desktop management software
- Desktop or Tower Case
- Windows 2000 Professional or Windows XP Professional (Note: XP will be downgraded to Win2K)
- InoculateIT anti-virus software
- 3 year warranty w/1 year on-site
- 7 x 24 toll free telephone support
- All components must be on the Windows Hardware Compatibility list

If a computer does not meet these minimum specifications, the Office of State Courts Administrator will not be able to ensure that court automation software will work correctly or that OSCA support will be available. Peripheral devices that have not been provided by OSCA such as wireless mice and/or keyboards, headsets, PDA's etc. will be removed if found to be contributing to the malfunctioning of a workstation or laptop.